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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,600	04/02/2007	Atsushi Takahashi	003913.118325	4762
Pitney Hardin L	7590 01/12/200 LP	EXAMINER		
7 Times Square			CHIN, RANDALL E	
New York, NY 10036-7311			ART UNIT	PAPER NUMBER
			3723	
			MAIL DATE	DELIVERY MODE
			01/12/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/579,600	TAKAHASHI, ATSUSHI	
Office Action Summary	Examiner	Art Unit	
	Randall Chin	3723	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a fod will apply and will expire SIX (6) MO tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 14 2a) ☐ This action is FINAL . 2b) ☐ T 3) ☐ Since this application is in condition for allow closed in accordance with the practice under the condition of the condition is the practice of the condition of the condition is the condition of the condition of the condition is the condition of th	his action is non-final. wance except for formal mat	·	
Disposition of Claims			
4) ☐ Claim(s) 7-17 is/are pending in the application 4a) Of the above claim(s) 12-17 is/are withdress. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 7-11 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and are subjected to by the Exames.	rawn from consideration. d/or election requirement.		
10) The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the control of the control of the correct of the control of the correct of	nccepted or b) objected to he drawing(s) be held in abeya rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreignate a) All b) Some * c) None of: 1. Certified copies of the priority documed 2. Certified copies of the priority documed 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a light series.	ents have been received. ents have been received in <i>i</i> riority documents have been eau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) s)/Mail Date nformal Patent Application 	

Application/Control Number: 10/579,600 Page 2

Art Unit: 3723

DETAILED ACTION

Election/Restrictions

- Applicant's election without traverse of Group I, claims 7-11, in the reply filed on
 October 2008 is acknowledged.
- 2. Claims 12-17 (Group II) are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 14 October 2008.

Information Disclosure Statement

3. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Drawings

4. The drawings are objected to because in Fig. 8, the lead line for reference numeral 8 is unclear as to where it is directed to.

Application/Control Number: 10/579,600 Page 3

Art Unit: 3723

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Brandli 4,395,943 (hereinafter Brandli).

As for claim 7, the patent to Brandli discloses a "small-diameter" (merely a relative expression) resin twisted brush comprising a plurality of resin filaments 2 (since it's an interproximal toothbrush with typical plastic or resin filaments), at least two resilient resin stem rods 3, 3 (col. 2, lines 17-23), said plurality of resin filaments being clamped between said at least two resilient resin stem rods (Fig. 1), said at least two resilient resin stem rods (Fig. 1), said at least two resilient resin stem rods 3, 3 being twisted about one another, thereby forming said brush with helical bristles formed by said plurality of resin filaments extending radially from said at least two twisted resilient resin stem rods (Fig. 1), whereby said small-diameter resin twisted brush is deemed capable of adapting to deformed conditions and of recovering an initial shape.

As for claim 8, said at least two resilient resin stem rods 3, 3 is deemed to include at least one "thermally fusible" resin filament rod since the wire rod 3 has a plastic layer of nylon or polyurethane thereon (col. 2, lines 17-21). As for claim 8 further reciting that said at least one thermally fusible resin filament rod is "fused during manufacture of said small-diameter resin twisted brush" to firmly hold said plurality of resin filaments between said at least two twisted resilient resin stem rods, and to prevent said at least two twisted resilient resin stem rods from detwisting, it should be noted that methods of forming are not germane to patentability in apparatus claims.

As for claim 9, said at least two resilient resin stem rods 3, 3 are deemed coated with a thermally fusible resin material 4 (Fig. 2; col. 2, lines 17-21). As for claim 9 further reciting that said thermally fusible resin filament rod is "fused during manufacture of said small-diameter resin twisted brush" to firmly hold said plurality of resin filaments

between said at least two twisted resilient resin stem rods, and to prevent said at least two twisted resilient resin stem rods from detwisting, it should be noted that methods of forming are not germane to patentability in apparatus claims.

As for claim 10, said at least two resilient resin stem rods 3, 3 are color-coded with a pigmented resin to indicate the size of said helical bristles (col. 2, lines 39-42).

As for claim 11, ends of said at least two resilient resin stem rods adjacent to said helical bristles are deemed "smoothed" (since this is merely deemed a relative term) to remove sharp edges.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references to Montoli, Mathison, Fitjer, Dumler, and Christoforou are relevant to various twisted wire brush arrangements.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randall Chin whose telephone number is (571) 272-1270. The examiner can normally be reached on Monday through Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Hail can be reached on (571) 272-4485. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/579,600 Page 6

Art Unit: 3723

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Randall Chin/ Primary Examiner, Art Unit 3723